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PLEASE AMEND THIS APPLICATION AS FOLLOWS:

In the Claims:

Please amend the following claims as follows:

1. (ORIGINAL) A method for the treatment of immune-related or immune-mediated disorders or diseases in a mammalian subject in need of such treatment, by manipulating the NKT cell population of said subject, wherein manipulation of said NKT cell population results in modulation of the Th1/Th2 cell balance towards an inflammatory response, said modulation being mediated by different components, cells, tissues or organs of said subject or another subject.

2. (ORIGINAL) A method for the treatment of immune-related or immune-mediated disorders or diseases in a mammalian subject in need of such treatment, by manipulating the NKT cell population of said subject, wherein manipulation of said NKT cell population results in modulation of the Th1/Th2 cell balance towards an anti-inflammatory or proinflammatory response, said modulation being mediated by different components, cells, tissues or organs of said subject's or another subject's immune system.

3. (ORIGINAL) A method for the treatment of immune-related or immune-mediated disorders or diseases in a mammalian subject in need of such treatment, by manipulating the NKT cell population of said subject, wherein manipulation of said NKT cell population results in modulation of the Th1/Th2 cell balance toward anti-inflammatory cytokine producing cells, said modulation being mediated by different components, cells, tissues or organs of said subject's or another subject's immune system.

4. (CANCELED)

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5. (ORIGINAL) The method of claim 3, wherein said manipulation is performed by depletion of said NKT cell population.

- 6. (ORIGINAL) The method of claim 3 for the treatment of immune-related or immune-mediated disorders or diseases in a mammalian subject, comprising the steps of:
  - a. obtaining NKT cells from said subject or another subject;
  - b. ex vivo educating the NKT cells obtained in step (a) such that the resulting educated NKT cells may modulate the Th1/Th2 cell balance toward anti-inflammatory cytokine producing cells; and
  - c. re-introducing to said subject the educated NKT cells obtained in step (b) which may modulate the Th1/Th2 cell balance toward anti-inflammatory cytokine producing cells, resulting in an increase in the quantitative ratio between any one of IL4 and IL10 to IFNy.
- 7. (ORIGINAL) The method of claim 6, wherein said ex vivo education of step (b) is performed by culturing said NKT cells in the presence of any one of:
  - a. antigens or epitopes associated with said immune-related or immune-mediated disorder or disease to be treated, antigens or epitopes associated with the immune-mediated inflammatory response, or any combination thereof;
  - b. at least one liver-associated cell of tolerized or non-tolerized subjects suffering from said immune-related or immune-mediated disorder or of said subject;
  - c. at least one cytokine or adhesion molecule, or any combination thereof; and
  - d. a combination of any of (a), (b) and (c).
- 8. (ORIGINAL) The method of claim 7 wherein said *ex vivo* education is performed by culturing said NKT cells in the presence of antigens associated with said immune-related or immune-mediated disorder or disease.

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9. (ORIGINAL) The method of claim 8, wherein said antigens comprise allogeneic

antigens obtained from donors suffering from said immune-related or immune-mediated

disorder or disease, xenogenic antigens, syngeneic antigens, autologous antigens, non-

autologous antigens, recombinantly prepared antigens, or any combination thereof.

10. (ORIGINAL) The method of claim 7, wherein said liver-associated cells comprise

Kupffer cells, Stellate cells, liver endothelial cells, liver-associated stem cells, an

apolipoprotein, or any other liver-related lymphocytes.

11. (ORIGINAL) The method of claim 7, wherein said cytokines comprise IL4, IL10,

TGFβ, IFNγ, IL12, IL2, IL18 or IL15.

12. (ORIGINAL) The method of claim 7, wherein said adhesion molecules comprise

Integrins, Selectins or ICAMs.

(ORIGINAL) The method of claim 6, wherein said educated NKT cells are re-13.

introduced to said subject by adoptive transfer.

14. (CANCELED)

15. (CURRENTLY AMENDED) The method of claim 14 146, wherein said

components, cells, tissues or organs are administered orally.

(ORIGINAL) A method for the treatment of an immune-related or immune-16.

mediated disorder or disease in a mammalian subject in need of such treatment by

eliciting in said subject up or down regulation of the immune response to said disorder or

disease by oral tolerization.

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17. (ORIGINAL) A method for the treatment of an immune-related or immune-

mediated disorder or disease in a mammalian subject in need of such treatment by

immune modulation through oral tolerance induction or oral immune regulation.

18. (ORIGINAL) The method of claim 17 wherein said immune modulation through

oral tolerance induction or oral immune regulation involves the oral administration of

liver extract.

19. (CURRENTLY AMENDED) The method of claim 14 146 wherein said method

of administration comprises oral, intravenous, parenteral, transdermal, subcutaneous,

intravaginal, intraperitoneal, intranasal, mucosal, sublingual, topical or rectal

administration, or any combination thereof.

20. (ORIGINAL) The method of claim 17 wherein said immune modulation through

oral tolerance induction or oral immune regulation involves the oral administration of

material comprising components, cells, tissues and/or organs derived from any allogeneic

donor suffering from said immune-related or immune-mediated disorder or disease,

xenogeneic sources, syngeneic sources, autologous sources, non-autologous sources,

immunologically functional equivalents, or any combination thereof.

21. (CANCELED)

22. (CANCELED)

23. (ORIGINAL) A method for the treatment of an immune-related or immune-

mediated disorder or disease comprising Osteoporosis, Multiple Sclerosis, SLE,

Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease, Hematologic

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Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease, Endocrine

Disease (not including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic Disease,

Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis, in a mammalian subject in

need of such treatment by immune modulation through oral tolerance induction or oral

immune regulation wherein the Th1/Th2 balance shifts towards Th2, the anti-

inflammatory response, resulting in an increase of the CD4<sup>+</sup> IL4<sup>+</sup> IL10<sup>+</sup>/CD4<sup>+</sup> IFNγ ratio.

24. (ORIGINAL) A method for the treatment of an immune-related or immune-

mediated disorder or disease comprising Osteoporosis, Multiple Sclerosis, SLE,

Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease, Hematologic

Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease, Endocrine

Disease (not including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic Disease,

Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis in a mammalian subject in

need of such treatment by the modulation of NKT cells wherein the Th1/Th2 balance

shifts towards Th2, an anti-inflammatory response, resulting in an increase of the CD4<sup>+</sup>

IL4<sup>+</sup> IL10<sup>+</sup>/CD4<sup>+</sup> IFNy ratio.

25. (ORIGINAL) The method of any one of claims 1 to 24, wherein said immune-

related or immune-mediated disorder or disease is Non-Alcoholic Steatohepatitis.

26. (ORIGINAL) The method of any one of claims 1 to 24, wherein said immune-

related or immune-mediated disorder or disease is diabetes mellitus or glucose

intolerance.

27. (ORIGINAL) The method of any one of claims 1 to 24, wherein said immune-

related or immune-mediated disorder or disease is obesity.

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28. (ORIGINAL) The method of any one of claims 1 to 24, wherein said immune-

related or immune-mediated disorder or disease is metabolic syndrome.

29. (ORIGINAL) The method of any one of claims 1 to 24, wherein said immune-

related or immune-mediated disorder or disease is Graft Versus Host Disease.

30. (ORIGINAL) The method according to any one of claims 1 to 24, wherein said

immune-related or immune-mediated disorder or disease comprises Osteoporosis, Multiple

Sclerosis, SLE, Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease,

Hematologic Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease,

Endocrine Disease (not including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic

Disease, Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis.

31. (ORIGINAL) The method of any one of claims 25-30, wherein said mammalian

subject is a human patient.

32. (ORIGINAL) The method of claim 6 or 7, wherein said NKT cells are NKT cells

expressing the CD56 marker.

33. (ORIGINAL) A therapeutic composition for the treatment of an immune-related or

immune-mediated disorder or disease in a mammalian subject, said composition comprising,

as an effective ingredient, ex vivo educated xenogeneic, syngeneic, autologous or non-

autologous NKT cells capable of modulating the Th1/Th2 cell balance toward anti-

inflammatory cytokine producing cells, and optionally further comprising pharmaceutically

acceptable carrier, diluent, excipient and/or additive.

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34. (ORIGINAL) The therapeutic composition of claim 33, wherein said educated

NKT cells mediate an increase in the quantitative ratio between any one of IL4 and IL10 to

IFNγ.

35. (ORIGINAL) The therapeutic composition according to claim 34, wherein said

educated NKT cells are obtained by ex vivo culturing in the presence of any one of:

a. antigens or epitopes associated with said immune-related or immune-mediated

disorder or disease to be treated, antigens or epitopes associated with the

immune-mediated inflammatory response, or any combination thereof;

b. at least one liver-associated cell of tolerized or non-tolerized patients suffering

from said disorder or disease of said subject;

c. at least one cytokine, or adhesion molecule, or any combination thereof; and

d. a combination of any of (a), (b), (c) above.

36. (ORIGINAL) The therapeutic composition of claim 35, wherein said educated

NKT cell is obtained by ex vivo culturing in the presence of antigens associated with said

immune-related or immune-mediated disorder.

37. (ORIGINAL) The therapeutic composition of claim 36, wherein said antigens

comprise allogeneic antigens from donors suffering from said immune-related or immune-

mediated disorder or disease, xenogeneic antigens, syngeneic antigens, autologous antigens,

non-autologous antigens, recombinantly prepared antigens, or any combination thereof.

38. (ORIGINAL) The therapeutic composition of claim 35, wherein said liver-

associated cells comprise Kupffer cells, Stellate cells, liver endothelial cells and any other

liver-related lymphocytes.

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39. (ORIGINAL) The therapeutic composition of claim 35, wherein said cytokines

comprise IL4, IL10, TGFβ, IFNγ, IL2, IL18, IL12 or IL15.

40. (ORIGINAL) The therapeutic composition of claim 35, wherein said adhesion

molecules comprise Integrins, Selectin or ICAM.

41. (ORIGINAL) A therapeutic composition of any one of claims 33 to 40, wherein

said immune-related or immune-mediated disorder or disease is Non-Alcoholic

Steatohepatitis.

42. (ORIGINAL) The therapeutic composition of any one of claims 33 to 40, wherein

said immune-related or immune-mediated disorder or disease is diabetes mellitus or glucose

intolerance.

43. (ORIGINAL) The therapeutic composition of any one of claims 33 to 40, wherein

said immune-related or immune-mediated disorder or disease is obesity.

44. (ORIGINAL) The therapeutic composition of any one of claims 33 to 40, wherein

said immune-related or immune-mediated disorder or disease is metabolic syndrome.

45. (ORIGINAL) The therapeutic composition of any one of claims 33 to 40, wherein

said immune-related or immune-mediated disorder or disease is Graft Versus Host Disease.

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46. (ORIGINAL) The therapeutic composition of any one of claims 33 to 40, wherein

said immune-related or immune-mediated disorder or disease comprises Osteoporosis,

Multiple Sclerosis, SLE, Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal

Disease, Hematologic Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic

Disease, Endocrine Disease (not including Diabetes), Vasculitis, Scleroderma, CREST,

Neurologic Disease, Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis.

47. (CANCELED)

48. (CANCELED)

49. (CANCELED)

50. (ORIGINAL) The therapeutic composition of any one of claims 33 to 40 wherein

the educated NKT cells of said composition modulate the Th1/Th2 cell balance towards anti-

inflammatory cytokine producing cells in a mammalian subject suffering an immune-related

or immune-mediated disorder or disease, and said NKT cells mediate an increase in the

quantitative ratio between any one of IL4 and IL10 to IFNy.

51. (ORIGINAL) The therapeutic composition of any one of claims 33 to 40 for the

treatment of an immune-related or immune-mediated disorder or disease in a mammalian

subject, wherein the educated NKT cells of said composition modulate the Th1/Th2 cell

balance toward anti-inflammatory cytokine producing cells.

52. (ORIGINAL) An ex vivo educated autologous, syngeneic, xenogeneic or non-

autologous NKT cell for use in the treatment of immune-related or immune-mediated

disorders or disease in a mammalian subject in need of such treatment.

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53. (ORIGINAL) The educated NKT cell of claim 52, wherein said educated NKT cell has been *ex vivo* cultured in the presence of any one of:

- a. antigens or epitopes associated with said immune-related or immune-mediated disorder or disease to be treated, antigens or epitopes associated with the immune-mediated inflammatory response, or any combination thereof;
- at least one liver-associated cell of tolerized or non-tolerized patients suffering from said immune-related or immune-mediated disorder or disease or of said subject;
- c. at least one cytokine, or adhesion molecule or any combination thereof; and
- d. a combination of any of (a), (b) and (c) above.
- 54. (ORIGINAL) The educated NKT cell of claim 53, wherein said antigens comprise allogeneic antigens of donors suffering from said immune-related or immune-mediated disorder or disease, xenogeneic antigens, syngeneic antigens, autologous antigens, non-autologous antigens, recombinantly prepared antigens, or any combinations thereof.
- 55. (ORIGINAL) The educated NKT cell of claim 53, wherein said liver-associated cells comprise Kupffer cells, Stellate cells, liver endothelial cells or any other liver-related lymphocytes.
- 56. (ORIGINAL) The educated NKT cell of claim 53, wherein said cytokines comprise IL4, IL10, TGFβ, IFNγ, IL2, IL18, IL12 or IL15.
- 57. (ORIGINAL) The educated NKT cell of claim 53, wherein said adhesion molecules comprise Integrins, Selectin or ICAMs.
- 58. (ORIGINAL) The educated NKT cell of any one of claims 52 to 57, wherein said immune-related or immune-mediated disorder or disease is Non-Alcoholic Steatohepatitis.

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59. (ORIGINAL) The educated NKT cell of any one of claims 52 to 57, wherein said immune-related or immune-mediated disorder or disease is diabetes mellitus or glucose intolerance.

- 60. (ORIGINAL) The educated NKT cell of any one of claims 52 to 57, wherein said immune-related or immune-mediated disorder or disease is obesity.
- 61. (ORIGINAL) The educated NKT cell of any one of claims 52 to 57, wherein said immune-related or immune-mediated disorder or disease is metabolic syndrome.
- 62. (ORIGINAL) The educated NKT cell of any one of claims 52 to 57, wherein said immune-related or immune-mediated disorder or disease is Graft Versus Host Disease.
- 63. (ORIGINAL) The educated NKT cell of any one of claims 52 to 57, wherein said immune-related or immune-mediated disorder or disease comprises Osteoporosis, Multiple Sclerosis, SLE, Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease, Hematologic Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease, Endocrine Disease (not including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic Disease, Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis.
- 64. (CANCELED)
- 65. (CANCELED)
- 66. (ORIGINAL) A therapeutic composition for the treatment of an immune-related or immune-mediated disorder or disease, which composition comprises as an effective ingredient an antibody that specifically recognizes NKT cells.

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67. (ORIGINAL) The therapeutic composition of claim 66, wherein said immune-

related or immune-mediated disorder or disease is Non-Alcoholic Steatohepatitis.

68. (ORIGINAL) The therapeutic composition of claim 66, wherein said immune-related

or immune-mediated disorder or disease is diabetes mellitus or glucose intolerance.

69. (ORIGINAL) The therapeutic composition of claim 66, wherein said immune-related

or immune-mediated disorder or disease is obesity.

70. (ORIGINAL) The therapeutic composition of claim 66, wherein said immune-related

or immune-mediated disorder or disease is metabolic syndrome.

71. (ORIGINAL) The therapeutic composition of claim 66, wherein said immune-related

or immune-mediated disorder or disease is Graft Versus Host Disease.

72. (ORIGINAL) The therapeutic composition of claim 66, wherein said immune-related

or immune-mediated disorder or disease comprises Osteoporosis, Multiple Sclerosis, SLE,

Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease, Hematologic Disease,

ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease, Endocrine Disease (not

including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic Disease, Lung Disease,

Myositis, Ear Disease, or Myasthenia Gravis.

73. (CANCELED)

74. (CANCELED)

75. (CANCELED)

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- 76. (CANCELED)
- 77. (CANCELED)
- 78. (CANCELED)
- 79. (CANCELED)
- 80. (CANCELED)
- 81. (CANCELED)
- 82. (CANCELED)
- 83. (ORIGINAL) A method for the treatment of immune-related or immune-mediated disorders in a mammalian subject in need of such treatment, by manipulating NKT cell population of said subject, wherein manipulation of said NKT cell population results in modulation of the Th1/Th2 cell balance toward pro-inflammatory cytokine producing cells, said modulation being mediated by different components, cells, tissues or organs of said subject's or another subject's immune system.
- 84. (ORIGINAL) The method of claim 83, wherein said components comprise cellular immune reaction elements, humoral immune reaction elements and cytokines.
- 85. (ORIGINAL) The method of claim 83, wherein said manipulation is performed by depletion of said NKT cell population.

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86. (ORIGINAL) The method of claim 83 for the treatment of immune-related or immune-mediated disorders in a mammalian subject comprising the steps of:

- a. obtaining NKT cells from said subject or another subject;
- b. *ex vivo* educating the NKT cells obtained in step (a) such that the resulting educated NKT cells may modulate the Th1/Th2 cell balance toward proinflammatory cytokine producing cells; and
- c. re-introducing to said subject the educated NKT cells obtained in step (b) which may modulate the Th1/Th2 cell balance toward pro-inflammatory cytokine producing cells, resulting in a decrease in the quantitative ratio between any one of IL4 and IL10 to IFNy.
- 87. (ORIGINAL) The method of claim 86, wherein said *ex vivo* education of step (b) is performed by culturing said NKT cells in the presence of any one of:
  - a. antigens or epitopes associated with the immune-related or immune-mediated disorder to be treated, antigens or epitopes associated with the immune-mediated inflammatory response, or any combination thereof;
  - b. at least one liver-associated cell of tolerized or non-tolerized subjects suffering from said immune-related or immune-mediated disorder or of said subject;
  - c. at least one cytokine, or adhesion molecule or any combination thereof; and
  - d. a combination of any of (a), (b) and (c).
- 88. (ORIGINAL) The method of claim 87 wherein said *ex vivo* education is performed by culturing said NKT cells in the presence of antigens associated with said immune-related or immune-mediated disorder.

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89. (ORIGINAL) The method of claim 88, wherein said antigens comprise

allogeneic antigens obtained from a donor subject suffering from said immune-related or

immune-mediated disorders, xenogenic antigens, autologous antigens or recombinantly

prepared antigens, or any combination thereof.

90. (ORIGINAL) The method of claim 85, wherein said liver-associated cells are

selected from the group consisting of Kupffer cells, Stellate cells, liver endothelial cells,

liver-associated stem cells and any other liver-related lymphocytes.

91. (ORIGINAL) The method of claim 87, wherein said cytokines comprise of IL4,

IL10, TGFβ, IFNγ, IL12, IL2, IL18 or IL15.

92. (ORIGINAL) The method of claim 87, wherein said adhesion molecules

comprise Integrins, Selectin or ICAM.

93. (ORIGINAL) The method of claim 86, wherein said educated NKT cells are re-

introduced to said subject by adoptive transfer.

94. (ORIGINAL) The method of claim 86 or 87, further comprising the step of

eliciting in said subject immune modulation of the immune-related or immune-mediated

disorder by administering to said subject components, cells, tissues and/or organs derived

from any allogeneic donor suffering from said immune-related or immune-mediated

disorder, xenogeneic sources, autologous sources, or immunologically functional

equivalents, or any combination thereof.

95. (ORIGINAL) The method of claim 94, wherein said components, cells, tissues or

organs are administered orally.

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96. (ORIGINAL) A method for the treatment of an immune-related or immune-

mediated disorder or disease in a mammalian subject in need of such treatment by

eliciting in said subject up or down regulation of the immune response to said disorder or

disease by oral tolerization.

97. (ORIGINAL) A method for the treatment of an immune-related or immune-

mediated disorder or disease in a mammalian subject in need of such treatment by

immune modulation through oral tolerance induction or oral immune regulation.

98. (ORIGINAL) The method of claim 97 wherein said immune modulation through

oral tolerance induction or oral immune regulation involves the oral administration of

liver extract.

99. (ORIGINAL) The method of claim 94 wherein said method of administration

comprises oral, intravenous, parenteral, transdermal, subcutaneous, intravaginal,

intraperitoneal, intranasal, mucosal, sublingual, topical or rectal administration, or any

combination thereof.

100. (ORIGINAL) The method of claim 97 wherein said immune modulation through

oral tolerance induction or oral immune regulation involves the oral administration of

material comprising components, cells, tissues and/or organs derived from any allogeneic

donor suffering from said immune-related or immune-mediated disorder or disease,

xenogeneic sources, syngeneic sources, autologous sources, non-autologous sources,

immunologically functional equivalents, or any combination thereof.

101. (ORIGINAL) The method of claim 86 or 87 further comprising eliciting in said

subject up or down regulation of the immune response to said disorder or disease by oral

tolerization, oral tolerance induction or oral immune regulation.

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106. (ORIGINAL) The method of any one of claims 83 to 104, wherein said immune-

related or immune-mediated disorder or disease is diabetes mellitus or glucose

intolerance.

107. (ORIGINAL) The method of any one of claims 83 to 104, wherein said immune-

related or immune-mediated disorder or disease is obesity.

108. (ORIGINAL) The method of any one of claims 83 to 104, wherein said immune-

related or immune-mediated disorder or disease is metabolic syndrome.

109. (ORIGINAL) The method of any one of claims 83 to 104, wherein said immune-

related or immune-mediated disorder or disease is Graft Versus Host Disease.

110. (ORIGINAL) The method according to any one of claims 83 to 104, wherein said

immune-related or immune-mediated disorder or disease comprises Osteoporosis, Multiple

Sclerosis, SLE, Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease,

Hematologic Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease,

Endocrine Disease (not including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic

Disease, Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis.

111. (ORIGINAL) The method of any one of claims 105-110, wherein said mammalian

subject is a human patient.

112. (ORIGINAL) The method of claim 86 or 87, wherein said NKT cells are NKT cells

expressing the CD56 marker.

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113. (ORIGINAL) A therapeutic composition for the treatment of an immune-related or

immune-mediated disorder or disease in a mammalian subject, said composition comprising,

as an effective ingredient, ex vivo educated xenogeneic, syngeneic, autologous or non-

autologous NKT cells capable of modulating the Th1/Th2 cell balance toward pro-

inflammatory cytokine producing cells, and optionally further comprising pharmaceutically

acceptable carrier, diluent, excipient and/or additive.

114. (ORIGINAL) The therapeutic composition of claim 113, wherein said educated NKT

cells mediate a decrease in the quantitative ratio between any one of IL4 and IL10 to IFNy.

115. (ORIGINAL) The therapeutic composition according to claim 114, wherein said

educated NKT cells are obtained by ex vivo culturing in the presence of any one of:

a. antigens or epitopes associated with said immune-related or immune-mediated

disorder or disease to be treated, antigens or epitopes associated with the

immune-mediated inflammatory response, or any combination thereof;

b. at least one liver-associated cell of tolerized or non-tolerized patients suffering

from said disorder or disease of said subject;

c. at least one cytokine, or adhesion molecule, or any combination thereof; and

d. a combination of any of (a), (b), (c) above.

116. (ORIGINAL) The therapeutic composition of claim 115, wherein said educated NKT

cell is obtained by ex vivo culturing in the presence of antigens associated with said immune-

related or immune-mediated disorder.

117. (ORIGINAL) The therapeutic composition of claim 116, wherein said antigens

comprise allogeneic antigens from donors suffering from said immune-related or immune-

mediated disorder or disease, xenogeneic antigens, syngeneic antigens, autologous antigens,

non-autologous antigens, recombinantly prepared antigens, or any combination thereof.

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118. (ORIGINAL) The therapeutic composition of claim 115, wherein said liver-

associated cells comprise Kupffer cells, Stellate cells, liver endothelial cells and any other

liver-related lymphocytes.

119. (ORIGINAL) The therapeutic composition of claim 115, wherein said cytokines

comprise IL4, IL10, TGFβ, IFNγ, IL2, IL18, IL12 or IL15.

120. (ORIGINAL) The therapeutic composition of claim 115, wherein said adhesion

molecules comprise Integrins, Selectin or ICAM.

121. (ORIGINAL) A therapeutic composition of any one of claims 113 to 120, wherein

said immune-related or immune-mediated disorder or disease is Non-Alcoholic

Steatohepatitis.

122. (ORIGINAL) The therapeutic composition of any one of claims 113 to 120, wherein

said immune-related or immune-mediated disorder or disease is diabetes mellitus or glucose

intolerance.

123. (ORIGINAL) The therapeutic composition of any one of claims 113 to 120, wherein

said immune-related or immune-mediated disorder or disease is obesity.

124. (ORIGINAL) The therapeutic composition of any one of claims 113 to 120, wherein

said immune-related or immune-mediated disorder or disease is metabolic syndrome.

125. (ORIGINAL) The therapeutic composition of any one of claims 113 to 120, wherein

said immune-related or immune-mediated disorder or disease is Graft Versus Host Disease.

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126. (ORIGINAL) The therapeutic composition of any one of claims 113 to 120, wherein said immune-related or immune-mediated disorder or disease comprises Osteoporosis, Multiple Sclerosis, SLE, Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease, Hematologic Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease, Endocrine Disease (not including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic Disease, Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis.

- 127. (CANCELED)
- 128. (CANCELED)
- 129. (CANCELED)
- 130. (CANCELED)
- 131. (CANCELED)
- 132. (CANCELED)
- 133. (CANCELED)
- 134. (CANCELED)
- 135. (CANCELED)
- 136. (CANCELED)
- 137. (CANCELED)

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147. (PREVIOUSLY PRESENTED) The method of claim 7, further comprising the step of eliciting in said subject immune modulation of said immune-related or immune-mediated

disorder or disease by administering to said subject components, cells, tissues and/or organs

derived from any allogeneic donor suffering from said immune-related or immune-mediated

disorder, xenogeneic sources, syngeneic sources, autologous sources, non-autologous

sources, immunologically functional equivalents, or any combination thereof.

148. (PREVIOUSLY PRESENTED) The method of claim 6, further comprising eliciting

in said subject up or down regulation of the immune response to said disorder or disease by

oral tolerization, oral tolerance induction or oral immune regulation.

149. (PREVIOUSLY PRESENTED) The method of claim 7, further comprising eliciting

in said subject up or down regulation of the immune response to said disorder or disease by

oral tolerization, oral tolerance induction or oral immune regulation.

150. (PREVIOUSLY PRESENTED) The method of claim 6, further comprising immune

modulation through oral tolerance induction or oral immune regulation.

151. (PREVIOUSLY PRESENTED) The method of claim 7, further comprising immune

modulation through oral tolerance induction or oral immune regulation.

152. (PREVIOUSLY PRESENTED) A therapeutic composition for the treatment of an

immune-related or immune-mediated disorder or disease in a mammalian subject comprising

educated autologous, xenogenic, syngeneic or non-autologous NKT cells, said composition

modulating the Th1/Th2 cell balance toward pro-inflammatory cytokine producing cells.

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153. (PREVIOUSLY PRESENTED) The therapeutic composition of claim 152 wherein said educated NKT cells mediate an increase in the quantitative ratio between any one of IL4

and IL10 to IFNy.

154. (PREVIOUSLY PRESENTED) The therapeutic composition of claim 152 wherein

said educated NKT cells of said composition modulate the Th1/Th2 cell balance towards pro-

inflammatory cytokine producing cells in a mammalian subject suffering an immune-related

or immune-mediated disorder or disease, and said NKT cells mediate a decrease in the

quantitative ratio between any one of IL4 and IL10 to IFNy.

155. (PREVIOUSLY PRESENTED) A therapeutic composition for the treatment of an

immune-related or immune-mediated disorder or disease in a mammalian subject comprising

an antibody that specifically recognizes NKT cells, and manipulates the NKT cell population

in said mammalian subject.

156. (PREVIOUSLY PRESENTED) The therapeutic composition of claim 155 wherein

said manipulation is the depletion of said NKT population.

157. (PREVIOUSLY PRESENTED) The therapeutic composition of claim 156 wherein

the depletion of said NKT cell population results in modulation the Th1/Th2 cell balance

toward pro-inflammatory cytokine producing cells.

158. (PREVIOUSLY PRESENTED) The therapeutic composition of claim 156 wherein

the depletion of said NKT cell population results in modulating the Th1/Th2 cell balance

toward anti-inflammatory cytokine producing cells.

159. (PREVIOUSLY PRESENTED) The therapeutic composition of claims 152 to 158

wherein said immune related disorder or disease is Non-Alcoholic Steatohepatitis.

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160. (PREVIOUSLY PRESENTED) The therapeutic composition of claims 152 to 158 wherein said immune related disorder or disease is diabetes mellitus or glucose intolerance.

- 161. (PREVIOUSLY PRESENTED) The therapeutic composition of claims 152 to 158 wherein said immune related disorder or disease is obesity.
- 162. (PREVIOUSLY PRESENTED) The therapeutic composition of claims 152 to 158 wherein said immune related disorder or disease is metabolic syndrome.
- 163. (PREVIOUSLY PRESENTED) The therapeutic composition of claims 152 to 158 wherein said immune related disorder or disease is Graft Versus Host Disease.
- 164. (PREVIOUSLY PRESENTED) The therapeutic composition of claims 152 to 158 wherein said immune related disorder or disease comprises the use of any one of claims 132 to 134, wherein said immune-related or immune-mediated disorder or disease comprises Osteoporosis, Multiple Sclerosis, SLE, Rheumatoid Arthritis, JRA, Eye Disease, Skin Disease, Renal Disease, Hematologic Disease, ITP, PA, Autoimmune Liver Disease, Other Rheumatologic Disease, Endocrine Disease (not including Diabetes), Vasculitis, Scleroderma, CREST, Neurologic Disease, Lung Disease, Myositis, Ear Disease, or Myasthenia Gravis.
- 165. (NEW) The method of claim 147 wherein said components, cells, tissues or organs are administered orally.
- 166. (NEW) The method of claim 147 wherein said method of administration comprises oral, intravenous, parenteral, transdermal, subcutaneous, intravaginal, intraperitoneal, intranasal, mucosal, sublingual, topical or rectal administration, or any combination thereof.